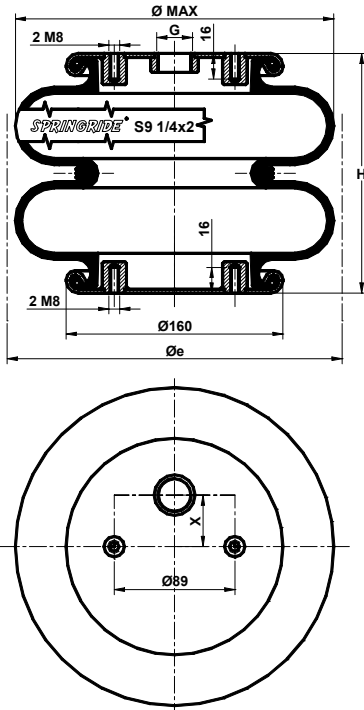


CRIMPED BELLOWS 9 1/4" x 2 NB

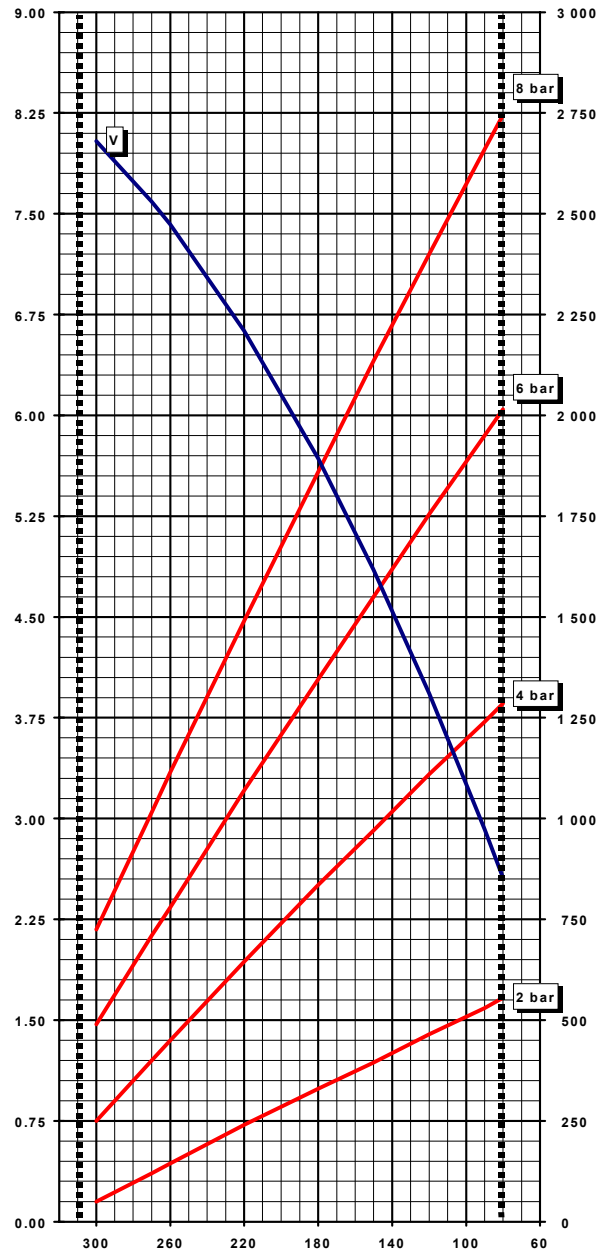


FASTENING TORQUE 25 Nm

| Heights (mm) (H) | | | Stroke (mm) |
|------------------|---------|--------|-------------|
| Maximum | Minimum | Static | |
| 300 | 80 | 175 | 220 |
| Diameters (mm) | | | Weight (kg) |
| Ø MAX | Overall | | |
| 255 | 275 | | 2.8 |

| Rubber Bellows | G | X (mm) | Part Numbers |
|------------------------|-------|--------|--------------|
| <u>Standard</u> | Rp3/4 | 38.1 | S09202 |
| -40 to 70°C | Rp1/4 | 44.5 | S09200 |
| <u>Butyl</u> | Rp3/4 | 38.1 | S09260 |
| -25 to 90°C | | | |
| <u>Epichlore</u> | Rp3/4 | 38.1 | S09270 |
| -20 to 115°C | | | |
| <u>Stainless Steel</u> | Rp1/4 | 44.5 | S09210 |
| -40 to 70°C | | | |

VOLUME V (dm³) at 6 bar LOAD (daN)



HEIGHT (mm)

- Indicative value of force required to reach minimum height at atmospheric pressure : 17 daN

- Maximum pressure : 8 bar

- The datas presented on this document are liable to evolution and don't constitute a commitment from DUNLOP AIRSPRINGS (see page 5-7).

CRIMPED BELLOWS 9¼" x 2 NB

FOR USE AS A PNEUMATIC ACTUATOR

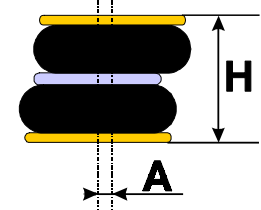
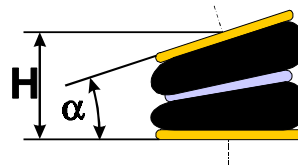
| CHARACTERISTICS IN STATIC CONDITION | | | | |
|-------------------------------------|----------------|----------------|----------------|----------------|
| HEIGHTS (mm) | LOAD (daN) | | | |
| | Pressure 2 bar | Pressure 4 bar | Pressure 6 bar | Pressure 8 bar |
| 80 | 555 | 1285 | 2015 | 2745 |
| 120 | 465 | 1110 | 1755 | 2400 |
| 150 | 395 | 970 | 1550 | 2135 |
| 175 | 340 | 855 | 1380 | 1905 |
| 220 | 240 | 645 | 1070 | 1490 |
| 260 | 145 | 450 | 780 | 1115 |
| 300 | 50 | 250 | 490 | 725 |

ANGULAR CAPABILITY

| Maximum (α) | For H between | |
|-------------|---------------|-------------|
| | H mini (mm) | H maxi (mm) |
| 5° | 145 | 270 |
| 10° | 160 | 265 |
| 15° | 190 | 255 |
| 20° | 210 | 240 |

OUT OF ALIGNMENT

| Maximum (A) | For H between | |
|-------------|---------------|-------------|
| | H mini (mm) | H maxi (mm) |
| 10 | 150 | 270 |
| 20 | 165 | 265 |
| 30 | 180 | 260 |
| 40 | 190 | 250 |



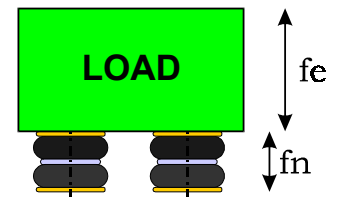
- Airsprings must not be pressurised unless they are restricted by an outside frame or by a suitable load.
- Strokes must be limited by the direct use of bump stops or external stops.
- When stacking airsprings, special cares must be taken to ensure the airsprings are guided and fixed.
- An Airspring is a single acting air actuator and must not be used below atmospheric pressure.
- Please check the over-pressure in case of quick compression.
- The datas presented on this document are liable to evolution and don't constitute a commitment from DUNLOP AIRSPRINGS (see page 5-7).

FOR USE AS AN ISOLATOR

| DYNAMIC CHARACTERISTICS AT H= 215 mm * | | | |
|--|----------------|----------------|----------------|
| | Pressure 2 bar | Pressure 4 bar | Pressure 6 bar |
| LOAD (daN) | 250 | 670 | 1340 |
| VOLUME (dm³) | 6.08 | 6.30 | 6.52 |
| STIFFNESS (daN/cm) | 33.6 | 78.4 | 120.6 |
| NATURAL FREQUENCY (Hz) | 1.83 | 1.71 | 1.65 |
| ISOLATION RATE AT 10 Hz | 96.5% | 97.0% | 97.2% |

- Isolation rate is given by the formula :

$$I = 1 - \frac{1}{\left(\frac{f_e}{f_n}\right)^2 - 1}$$



fe = Exciting frequency (Hz)
fn = Airsprings natural frequency (Hz)

* Recommended height for better isolation.